

# THE MERCK INDEX

AN ENCYCLOPEDIA OF  
CHEMICALS, DRUGS, AND BIOLOGICALS

THIRTEENTH EDITION

Y

3 EDITION

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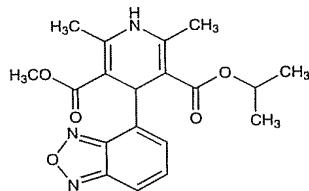
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angina and coronary artery disease: C. E. Handler, E. Sowton, *ibid.* 27, 415 (1984); in hypertension: E. B. Nelson *et al.*, *Clin. Pharmacol. Ther.* 40, 694 (1986). Comparison of hemodynamic effects of enantiomers: R. P. Hof *et al.*, *J. Cardiovasc. Pharmacol.* 8, 221 (1986). Series of articles on pharmacology and clinical use: *Am. J. Med.* 86, 1-146 (1989).



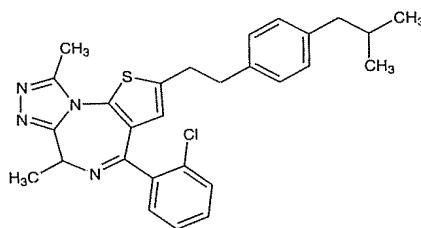
mp 168-170°.

*S(+)-Form.* PN-205-033. Crystals from ether + hexane, mp 142°.  $[\alpha]_D^{20} +6.7^\circ$  (c = 1.5 in ethanol).

*R(-)-Form.* PN-205-034. Crystals from ether + hexane, mp 140°.  $[\alpha]_D^{20} -6.7^\circ$  (c = 1.67 in ethanol).

THERAP CAT: Antihypertensive; antianginal.

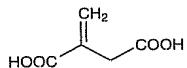
**5263. Israpafant.** [117279-73-9] 4-(2-Chlorophenyl)-6,9-dimethyl-2-[2-[4-(2-methylpropyl)phenyl]ethyl]-6*H*-thieno-[3,2-*f*][1,2,4]triazolo[4,3-*a*][1,4]diazepine; ( $\pm$ )-4-(*o*-chlorophenyl)-2-(*p*-isobutylphenethyl)-6,9-dimethyl-6*H*-thieno[3,2-*f*]-triazolo[4,3-*a*][1,4]diazepine; Y-24180; Pafnol.  $C_{28}H_{29}ClN_4S$ ; mol wt 489.09. C 68.76%, H 5.98%, Cl 7.25%, N 11.46%, S 6.56%. Platelet activating factor (PAF) antagonist. Prepn: T. Tahara *et al.*, EP 268242; *idem*, US 4820703 (1988, 1989 both to Yoshitomi). Pharmacology: M. Terasawa *et al.*, *Prostaglandins* 40, 553 (1990). Receptor binding study: S. Takehara *et al.*, *ibid.* 571. Clinical evaluation in asthma: S. Hozawa *et al.*, *Am. J. Respir. Crit. Care Med.* 152, 1198 (1995).



Colorless crystals from isopropyl ether, mp 129.5-131.5°. Sol in propylene glycol.

THERAP CAT: Antiasthmatic.

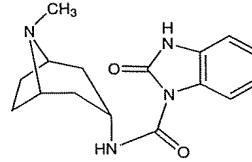
**5264. Itaconic Acid.** [97-65-4] Methylenesuccinic acid; propylenedicarboxylic acid.  $C_5H_6O_4$ ; mol wt 130.10. C 46.16%, H 4.65%, O 49.19%. Obtained by dry distillation of citric acid and subsequent treatment of the anhydride with water. Produced on a large scale by submerged aerobic fermentation using *Aspergillus terreus* and low cost carbohydrates from beet or cane: Kane *et al.*, US 2385283 (1945 to Pfizer). Synthesis from propargyl chloride, carbon monoxide, nickel carbonyl and water: Chiusoli, US 3025320 (1962 to Montecatini).



Hygroscopic crystals; characteristic odor. d 1.63. mp 162-164° with decompn. Also reported as mp 172° [Kinoshita, *Acta Phytochem. (Japan)* 5, 273 (1931)]. One gram dissolves in 12 ml water, 5 ml alcohol; very slightly sol in benzene, chloroform, ether, carbon disulfide, petr ether. *Keep well closed.*

## Israpafant

**5265. Itasetron.** [123258-84-4] 2,3-Dihydro-*N*-(3-*endo*)-8-methyl-8-azabicyclo[3.2.1]oct-3-yl]-2-oxo-1*H*-benzimidazolo-1-carboxamide; 2-oxo-*N*-1*α**H*,5*α**H*-trop-3*α*-yl-1-benzimidazoline-1-carboxamide.  $C_{16}H_{26}N_4O_2$ ; mol wt 300.35. C 63.98%, H 6.71%, N 18.65%, O 10.65%. Serotonin (5-HT<sub>3</sub>) receptor antagonist. Prepn: M. Turconi *et al.*, EP 309423 (1989 to Istituto De Angeli); *idem*, US 5223511 (1993 to Boehringer, Ing.); M. Turconi *et al.*, *J. Med. Chem.* 33, 2101 (1990). Pharmacology: *idem* *et al.*, *Eur. J. Pharmacol.* 203, 203 (1991). Mode of action: M. B. Passani *et al.*, *Brit. J. Pharmacol.* 112, 695 (1994). Clinical efficacy and tolerability: H. Goldschmidt *et al.*, *Anti-Cancer Drugs* 8, 436 (1997). Review of therapeutic potential: M. B. Passani, R. Corradetti, *CNS Drug Reviews* 2, 195-213 (1996).

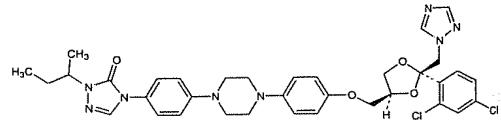


Crystals from acetonitrile, mp 205-207°. LD<sub>50</sub> in mice, rats (mg/kg): 56, 62 i.v. (Passani).

**Hydrochloride.** [127618-28-4] DAU 6215.  $C_{16}H_{20}N_4O_2 \cdot HCl$ ; mol wt 336.82. Colorless crystals, mp 270°.

THERAP CAT: Antiemetic.

**5266. Itraconazole.** [84625-61-6] 4-[4-[4-[2-(2,4-Dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinylphenyl]-2,4-dihydro-2-(1-methylpropyl)-3*H*-1,2,4-triazol-3-one; ( $\pm$ )-1-sec-butyl-4-[4-[*p*-[(2*R*\*,4*S*\*)-2-(2,4-dichlorophenyl)-2-(1*H*-1,2,4-triazol-1-ylmethyl)-1,3-dioxolan-4-yl]methoxy]phenyl]-1-piperazinylphenyl]- $\Delta^2$ -1,2,4-triazolin-5-one; oriconazole; R-51211; Itrazole; Sporanox; Triasporin.  $C_{33}H_{38}Cl_2N_4O_4$ ; mol wt 705.65. C 59.57%, H 5.43%, Cl 10.05%, N 15.88%, O 9.07%. Orally active antimycotic structurally related to ketoconazole, *q.v.* Prepn: J. Heeres, L. J. J. Backx, EP 6711; *idem*, US 4267179 (1980, 1981 both to Janssen); J. Heeres *et al.*, *J. Med. Chem.* 27, 894 (1984). *In vitro* activity: A. Espinel-Ingroff *et al.*, *Antimicrob. Ag. Chemother.* 26, 5 (1984). HPLC determin in biological samples: R. Woestenborghs *et al.*, *J. Chromatog.* 413, 332 (1987). Symposium on pharmacology and clinical efficacy: *Rev. Infect. Dis.* 9, Suppl 1, S1-S152 (1987). Toxicity data: H. Van Cauteren *et al.*, *ibid.* S43. Review of clinical pharmacokinetics: J. Heykants *et al.*, *Mycoses* 32, Suppl 1, 67-87 (1989); of clinical efficacy in dermatophytosis: P. De Doncker, G. Cauwenbergh, *Brit. J. Clin. Pract. Suppl.* 71, 118-122 (1990). Review: A. M. Sugar, *Curr. Clin. Topics Inf. Dis.* 13, 74-98 (1993).



Crystals from toluene, mp 166.2°. pKa 3.7. Lipophilic; partition coefficient (*n*-octanol/aq buffer of pH 8.1): 5.66. Practically insol in water and dil acidic solns. LD<sub>50</sub> (14 day) in mice, rats, dogs (mg/kg): >320, >320, >200 orally (Van Cauteren).

THERAP CAT: Antifungal.

**5267. Itramin Tosylate.** [13445-63-1] 2-Aminoethanol nitrate mono(4-methylbenzenesulfonate); 2-aminoethanol nitrate mono-*p*-toluenesulfonate; 2-nitroethylaminotoluene-*p*-sulfonate; Cardisan; Tostram; Nilatil.  $C_9H_{14}N_2O_6S$ ; mol wt 278.28. C 38.85%, H 5.07%, N 10.07%, O 34.50%, S 11.52%. Prepn: SE 168308 (1959 to Aktiebolaget Pharmacia), C.A. 54, 24405d (1960).

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benzene, dec  
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-10-carboxylic  
C 57.94%, H  
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51, 505; Eschi-

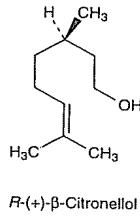
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## Cladribine

2360

**$\alpha$ -Citronellal.** [141-26-4] 3,7-Dimethyl-7-octenal; rhodinal. Liquid. bp<sub>14</sub> 51°. n<sub>D</sub><sup>20</sup> 1.4410. [ $\alpha$ ]<sub>D</sub><sup>20</sup> +9.75°. USE: In soap perfumes; insect repellent.

**2354.  $\beta$ -Citronellol.** [106-22-9] 3,7-Dimethyl-6-octen-1-ol; 2,6-dimethyl-2-octen-8-ol; citronellol; cephol. C<sub>10</sub>H<sub>20</sub>O; mol wt 156.26. C 76.86%, H 12.90%, O 10.24%. *l*-Form is a constituent of rose and geranium oils. *d*-Form occurs in Ceylon and Java citronella oils. History: J. L. Simonson, L. N. Owen, *The Terpenes vol. I* (University Press, Cambridge, 2nd ed, 1947). Prepn of ( $\pm$ )-form: Adams, Garvey, *J. Am. Chem. Soc.* 48, 477 (1926); Ofner et al., *Helv. Chim. Acta* 42, 2577 (1959). Prepn of (+)-form: Rienäcker, Ohloff, *Angew. Chem.* 73, 240 (1961); Naves, Tullen, *Helv. Chim. Acta* 44, 1867 (1961); Eschinnazi, *J. Org. Chem.* 26, 3072 (1961); Rienäcker, *Chimia* 27, 97 (1973); C. G. Overberger, J. L. Weise, *J. Am. Chem. Soc.* 90, 3525 (1968); T. Sato et al., *Tetrahedron Letters* 1980, 3377. Prepn of (-)-form: Ohloff, loc. cit.; Rienäcker, loc. cit.; Shono et al., *Tetrahedron Letters* 1974, 1295; K. Mori, T. Sugai, *Synthesis* 1982, 752. Synthesis of (+) or (-)-form from isoprene: Hidai et al., *Chem. Commun.* 1975, 170. Stereospecific prepn via microbiological (*Saccharomyces cerevisiae*) reduction: P. Gramatica et al., *Experientia* 38, 775 (1982). Manuf: Woroch et al.; Bain; Webb, US 2990422; US 3005845; US 3028431 (1961, 1961, 1962, all to Glidden); Eschinasi, US 3052730 (1962 to Givaudan). Abs config of the (+)-form: Freudenberg, Hohmann, *Ann.* 584, 54 (1953); Freudenberg, Lwowski, *ibid.* 587, 213 (1954). NMR, HPLC determin of *R/S* enantiomer ratios: D. Valentine et al., *J. Org. Chem.* 41, 62 (1976). See also Rhodinol.



*R*-(+)- $\beta$ -Citronellol

**(+)-Form.** Oily liquid, bp 224.5°, bp<sub>10</sub> 108.4°, d<sub>4</sub><sup>20</sup> 0.8550. n<sub>D</sub><sup>20</sup> 1.4559. [ $\alpha$ ]<sub>D</sub><sup>20</sup> +5.22°. Very slightly sol in water, miscible with with alcohol, ether.

**(-)-Form.**  $\beta$ -Rhodinol; Levocitrol. bp<sub>10</sub> 108-109°. d<sub>4</sub><sup>18</sup> 1.4576. [ $\alpha$ ]<sub>D</sub><sup>20</sup> -4.76°.

**( $\pm$ )-Form.** Dihydrogeraniol. d<sub>4</sub><sup>23.5</sup> 0.851. n<sub>D</sub><sup>23.5</sup> 1.454. USE: In perfumery.

**2355. Citrulline.** [372-75-8] N<sup>5</sup>-(Aminocarbonyl)-L-ornithine;  $\delta$ -ureidonorvaline;  $\alpha$ -amino- $\delta$ -ureidovaleric acid; N<sup>5</sup>-carbamylornithine. C<sub>6</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>; mol wt 175.19. C 41.13%, H 7.48%, N 23.99%, O 27.40%. H<sub>2</sub>NCONH(CH<sub>2</sub>)<sub>3</sub>CH(NH<sub>2</sub>)COOH. An amino acid, first isolated from the juice of watermelon, *Citrullus vulgaris* Schrad., *Cucurbitaceae*: Wada, *Biochem. Z.* 224, 420 (1930); isoln from casein: Wada, *ibid.* 257, 1 (1933). Synthesis from ornithine through copper complexes: Kurtz, *J. Biol. Chem.* 122, 477 (1938); by alkaline hydrolysis of arginine: Fox, *ibid.* 123, 687 (1938); from cyclopentanone oxime: Fox et al., *J. Org. Chem.* 6, 410 (1941). Crystallization: Matsuda et al., *JP* 71 174 (1971 to Ajinomoto), *C.A.* 74, 126056u (1971). Crystal and molecular structure: Naganathan, Venkatesan, *Acta Crystallogr.* 27B, 1079 (1971); Ashida et al., *ibid.* 28B, 1367 (1972). Use in asthenia and hepatic insufficiency: *FR* 2198739 (1974 to Hublot & Vallet), *C.A.* 82, 144952c (1975). Clinical trial in treatment of lysinuric protein intolerance: J. Rajantie et al., *J. Pediatr.* 97, 927 (1980); T. O. Carpenter et al., *N. Engl. J. Med.* 312, 290 (1985).

Prisms from methanol + water, mp 222°. [ $\alpha$ ]<sub>D</sub><sup>20</sup> +3.7° (c = 2). pK<sub>1</sub> 2.43; pK<sub>2</sub> 9.41. Sol in water. Insol in methanol, ethanol.

**Hydrochloride.** [34312-10-2] C<sub>6</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub> HCl Crystals, dec 185°. [ $\alpha$ ]<sub>D</sub><sup>22</sup> +17.9° (c = 2).

**Malate (salt).** [54940-97-5] Stimol. C<sub>6</sub>H<sub>13</sub>N<sub>3</sub>O<sub>3</sub>, C<sub>4</sub>H<sub>6</sub>O<sub>5</sub>; mol wt 309.27.

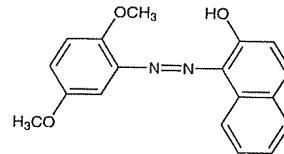
**THERAP CAT:** Treatment of asthenia.

**2356. Citrullol.** [1390-93-8] C<sub>22</sub>H<sub>38</sub>O<sub>4</sub>; mol wt 366.53. C 72.09%, H 10.45%, O 17.46%. From fruit pulp of *Citrullus colocynthis* Schrad., *Cucurbitaceae*: Power, Moore, *J. Chem. Soc.* 97, 99 (1910); Power, Salway, *ibid.* 103, 399, 1022 (1913); Khadem, Rahman, *Tetrahedron Letters* 1962, 1137.

Crystals, mp 282-283°. uv max: 242, 272, 282 nm (log ε 2.85, 2.68, 2.68). Sol in pyridine; practically insol in usual organic solvents.

**Diacetate.** C<sub>26</sub>H<sub>42</sub>O<sub>6</sub>. Crystals, mp 162°.

**2357. Citrus Red 2.** [6358-53-8] 1-[(2,5-Dimethoxyphenyl)azo]-2-naphthalenol; C.I. Solvent Red 80; C.I. 12156. C<sub>18</sub>H<sub>16</sub>N<sub>2</sub>O<sub>3</sub>; mol wt 308.33. C 70.12%, H 5.23%, N 9.09%, O 15.57%. Prepn: H. W. Elley, H. W. Daudt, US 2224904 (1940 to Du Pont). Metabolism: J. L. Radomski, *J. Pharmacol. Exp. Ther.* 134, 100 (1961); 136, 378 (1962). Toxicology: M. Sharrett et al., *Food Cosmet. Toxicol.* 4, 493 (1966). Review of carcinogenicity studies: *IARC Monographs* 8, 101-106. See also *Colour Index* vol. 4 (3rd ed, 1971) p 4033.



Crystals, mp 155-157°. Slightly sol in water; partially sol in ethanol and vegetable oils.

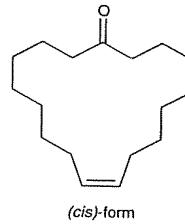
USE: To color orange skins.

**2358. Civet.** Zibeth. Unctuous secretion from receptacles between the anus and genitalia of both male and female civet cat. *Constit.* Civetone and similar compds.

Semi-solid, yellowish to brown unctuous substance; unpleasant, subacrid, bitter taste; fusible and burns without leaving much residue. Insol in water; partly sol in hot alcohol or in ether.

USE: As a fixative in perfumery.

**2359. Civetone.** [542-46-1] (Z)-9-Cycloheptadecen-1-one. C<sub>17</sub>H<sub>30</sub>O; mol wt 250.42. C 81.54%, H 12.07%, O 6.39%. 17-Membered macrocyclic musk, constituent of civet: Ruzicka, *Helv. Chim. Acta* 9, 230 (1926); Ruzicka et al., *ibid.* 10, 695 (1927). Occurs in nature as *cis*-form. Synthesis of *cis*-civetone: Stoll et al., *ibid.* 31, 543 (1948); J. Tsuji, T. Mondai, *Tetrahedron Letters* 1977, 3285; E. Seoane et al., *Chem. & Ind. (London)* 1978, 165. Synthesis of *trans*-form: H. Hunsdiecker, *Ber.* 77, 185 (1944); H. H. Mathur, S. C. Bhattacharyya, *J. Chem. Soc.* 1968, 114. Crystal and molecular structure of *cis*-civetone: G. Bernardinelli, R. Gerdil, *Helv. Chim. Acta* 65, 558 (1982).

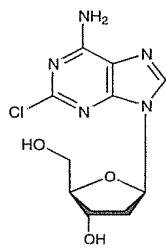


Crystals, mp 31-32°. Musky odor becoming pleasant in extreme dilns. d<sub>4</sub><sup>33</sup> 0.917. bp<sub>742</sub> 342°; bp<sub>2</sub> 59°. n<sub>D</sub><sup>33.4</sup> 1.4830.

USE: In perfumery.

**2360. Cladribine.** [4291-63-8] 2-Chloro-2'-deoxyadenosine; 2-chloro-6-amino-9-(2-deoxy- $\beta$ -D-erythro-pentofuran-

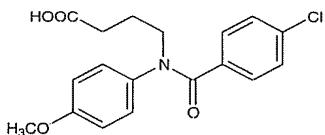
osyl)purine; 2-chlorodeoxyadenosine; 2-CdA; CladAdo; NSC-105014-F; Leustatin.  $C_{10}H_{12}ClN_5O_3$ ; mol wt 285.69. C 42.04%, H 4.23%, Cl 12.41%, N 24.51%, O 16.80%. Substituted purine nucleoside with antileukemic activity. Prepn as intermediate in synthesis of 2-deoxyribonucleosides: H. Venner, *Ber.* **93**, 140 (1960); M. Ikehara, H. Tada, *J. Am. Chem. Soc.* **85**, 2344 (1963); *ibid.* **87**, 606 (1965). Synthesis and biological activity: L. F. Christensen *et al.*, *J. Med. Chem.* **15**, 735 (1972). Stereospecific synthesis: Z. Kazimierczuk *et al.*, *J. Am. Chem. Soc.* **106**, 6379 (1984); R. K. Robins, G. R. Revankar, *EP* **173059**; *ibid.*, US **4760137** (1986, 1988 both to Brigham Young Univ.). Specific toxicity to lymphocytes: D. A. Carson *et al.*, *Proc. Nat. Acad. Sci. USA* **77**, 6865 (1980); *ibid.*, *Blood* **62**, 737 (1983). Mechanism of action: S. Seto *et al.*, *J. Clin. Invest.* **75**, 377 (1985). Clinical evaluation in chronic lymphocytic leukemia: L. D. Piro *et al.*, *Blood* **72**, 1069 (1988); in hairy cell leukemia: *ibid.*, *N. Engl. J. Med.* **322**, 1117 (1990).



Crystals from water, softens at 210-215°, solidifies and turns brown (Christensen). Also reported as crystals from ethanol, mp 220° (softens), resolidifies, turns brown and does not melt below 300° (Kazimierczuk).  $[\alpha]_D^{25} -18.8^\circ$  (c = 1 in DMF). uv max in 0.1N NaOH: 265 nm; in 0.1N HCl: 265 nm.

THERAP CAT: Antineoplastic.

**2361. Clanobutin.** [30544-61-7] 4-[(4-Chlorobenzoyl)-(4-methoxyphenyl)amino]butanoic acid; 4-[p-chloro-N-(p-methoxyphenyl)benzamido]butyric acid; *N*-(p-chlorobenzoyl)-*γ*-(p-anisidino)butyric acid; Bykahepar.  $C_{18}H_{18}ClNO_4$ ; mol wt 347.80. C 62.16%, H 5.22%, Cl 10.19%, N 4.03%, O 18.40%. Prepn: K. Klemm *et al.*, **DE 1917036** correspond to **US 3780095** (1971, 1973 both to Byk-Gulden). Series of articles on synthesis, physical and pharmacological properties: *Arzneimittel-Forsch.* **29**, 1-15 (1979). *In vitro* biochemical study: H. Wolf *et al.*, *Biochem. Pharmacol.* **29**, 1649 (1980). Effect on bile excretion in rats, dogs: P. Berchtold *et al.*, *Arzneimittel-Forsch.* **30**, 1878 (1980).



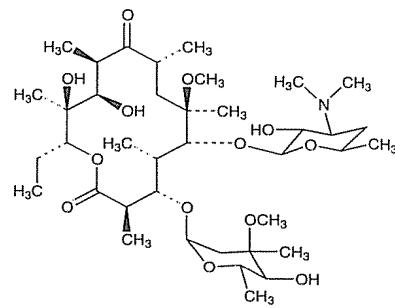
Cryst from ethyl acetate, mp 115-116°. pKa 5.04. Soly in water at 37°:  $4.02 \times 10^{-2}$  mol/l at pH 7. LD<sub>50</sub> in rats (mg/kg): >2000 orally; 570 i.v. (Klemm).

THERAP CAT: Choleretic.

THERAP CAT (VET): Choleretic; in treatment of piroplasmosis and anaplasmosis.

**2362. Clarithromycin.** [81103-11-9] 6-O-Methylerythromycin; A-56268; TE-031; Biaxin; Clathromycin; Cyllind; Klacid; Klaricid; Macladin; Naxy; Veclam; Zeclar.  $C_{38}H_{69}NO_13$ ; mol wt 747.95. C 61.02%, H 9.30%, N 1.87%, O 27.81%. Semisynthetic macrolide antibiotic; derivative of erythromycin, *q.v.* Prepn: Y. Watanabe *et al.*, *EP* **41355**; *ibid.*, US **4331803** (1981, 1982 both to Taisho); and *in vitro* antibacterial activity: S. Morimoto *et al.*, *J. Antibiot.* **37**, 187 (1984). *In vitro* and *in vivo* antibacterial activity: P. B. Fernan-

des *et al.*, *Antimicrob. Ag. Chemother.* **30**, 865 (1986). Comparative antibacterial spectrum *in vitro*: C. Benson *et al.*, *Eur. J. Clin. Microbiol.* **6**, 173 (1987); H. M. Wexler, S. M. Finegold, *ibid.* 492. HPLC determin in biological fluids: D. Croteau *et al.*, *J. Chromatog.* **419**, 205 (1987). Acute toxicity study: S. Abe *et al.*, *Cancer Chemotherapy (Tokyo)* **36**, Suppl. 3, 274 (1988). Symposium on pharmacology and comparative clinical studies: *J. Antimicrob. Chemother.* **27**, Suppl. A, 1-124 (1991). Comprehensive description: I. I. Salem, *Anal. Profiles Drug Subs. Excip.*, **24**, 45-85, (1996).



Colorless needles from chloroform + diisopropyl ether (1:2), mp 217-220° (dec). Also reported as crystals from ethanol, mp 222-225° (Morimoto). uv max (CHCl<sub>3</sub>): 288 nm (ε 27.9), *ibid.* (CHCl<sub>3</sub>): 240, 288 nm; (methanol): 211, 288 nm.  $[\alpha]_D^{25} -90.4^\circ$  (c = 1 in CHCl<sub>3</sub>). Stable at acidic pH. LD<sub>50</sub> in male, female mice, male, female rats (mg/kg): 2740, 2700, 3470, 2700 orally, 1030, 850, 669, 753 i.p., >5000 all s.c. (Abe).

THERAP CAT: Antibacterial.

**2363. Clathrates.** Compounds that are capable of trapping other substances within their own crystal lattices. The cavities of the host molecules are classified as cages, tunnels, or layered types, depending on the way they include guest molecules. The geometry of the cavities limits the guest molecules by size and shape, rather than by chemical similarity with the host molecules. Among common clathrates are *molecular sieves*, *cyclotriphosphazenes*, and *Dianin's compound*, as well as hydroquinone, cyclodextrins, *o*-thymotide, and deoxycholic acid, *q.v.* *Cavitands* are organic hosts with enforced (rigid) cavities: D. J. Cram, *Science* **219**, 1177 (1983); R. C. Helgeson *et al.*, *Chem. Commun.* **1983**, 101. Comprehensive book: *Clathrate Compounds*, V. M. Bhatnagar, Ed. (Chemical Pub. Co., New York, 1970) 244 pp. *Reviews*: D. D. MacNicol *et al.*, *Chem. Soc. Rev.* **7**, 65-87 (1978); E. C. Makin, "Clathration" in *Kirk-Othmer Encyclopedia of Chemical Technology* Vol. 6 (Wiley-Interscience, New York, 3rd ed., 1979) pp 178-189.

USE: As complexing agent; stabilizing agent. In analytical separations.

**2364. Clavulanic Acid.** [58001-44-8] [2R-(2α,3Z,5a)]-3-(2-Hydroxyethylidene)-7-oxo-4-oxa-1-azabicyclo[3.2.0]heptane-2-carboxylic acid; MM 14151.  $C_8H_9NO_5$ ; mol wt 199.16. C 48.25%, H 4.55%, N 7.03%, O 40.17%.  $\beta$ -Lactamase inhibitor. Antibiotic produced by *Streptomyces claviger*; first reported naturally occurring fused  $\beta$ -lactam containing oxygen. Isoln: M. Cole *et al.*, **DE 2517316** (1975 to Beecham), *C.A.* **84**, 72635t (1976); A. G. Brown *et al.*, *J. Antibiot.* **29**, 668 (1976). Structure, x-ray crystallography: T. T. Howarth *et al.*, *Chem. Commun.* **1976**, 266. Total synthesis of (±)-form: P. H. Bentley *et al.*, *ibid.* **1977**, 748, 905; *ibid.*, *Tetrahedron Letters* **1979**, 1889.  $\beta$ -Lactamase inhibition and antibacterial spectrum: C. Reading, M. Cole, *Antimicrob. Ag. Chemother.* **11**, 852 (1977). Mechanism of action: B. G. Spratt *et al.*, *ibid.* **12**, 406 (1977). Antibacterial activity, pharmacology and clinical efficacy of combination with amoxicillin: A. P. Ball *et al.*, *Lancet* **1**, 620 (1980); R. N. Brogden *et al.*, *Drugs* **22**, 337-362 (1981). *In vitro* and *in vivo* synergism with ticarcillin: R. Sutherland *et al.*, *Am. J. Med.* **79**, Suppl. 5B, 13 (1985).

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## Hydroxypropyl-beta-cyclodextrin

### CAS No:94035-02-6

**Name:** Hydroxypropyl-beta-cyclodextrin

**Synonyms:** beta-Hydroxypropylcyclodextrin  
 beta-Cyclodextrin, 2-hydroxypropyl ether  
 HPB  
 2-Hydroxypropyl-beta-cyclodextrin  
 128446-35-5

**CAS Number:** 94035-02-6

**Molecular Formula:**  $C_{42} \cdot (H)_{70-n} \cdot O_{35} \cdot (C_3H_7)_n$

**Melting Point:** 278 °C

**Safety Description:** S24/25 [Details](#)

<input type="checkbox"/>	<a href="#">Inquire now</a>	<a href="#">List of Suppliers for Hydroxypropyl-beta-cyclodextrin</a>	Country
<input type="checkbox"/>	<b>Onbio Inc.</b> Introduction:HYDROXYPROPYL-BETA-CYCLODEXTRIN		 United Sta
<input type="checkbox"/>	<b>Yiming Fine Chemicals Co., Ltd.</b> Introduction:mp : 267 °C (dec.)	storage temp. : 2-8°C	 China (Mair

solubility : H<sub>2</sub>O: 45 % (w/v)

form : solution (clear, colorless)

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Name	Description	Size	Catalog #	Supplier	
CKBB	Recombinant Human Creatine Kinase BB Isoenzyme	10µg, 50µg, 1mg	CKI- 268	PROSPEC-TANY TECHNOGENE LTD.	<a href="#">More Info</a>
Cdkk6	The RP-39008 Cdkk6 protein is a partial length (aa 1-327) bacterially expressed recombinant protein. RP-39008 is suitable for use as a control in ELISA and Western blot applications. The RP-39008 protein is GST-tagged.	10 ug	RP-39008	ABR - AFFINITY BIOREAGENTS INC.	<a href="#">More Info</a>
CKMM	Human Creatine Kinase MM	200µg, 1mg, 10mg	CKI- 273	PROSPEC-TANY TECHNOGENE LTD.	<a href="#">More Info</a>
CKS-17	Sequence: Leu-Gln-Asn-Arg-Arg-Gly-Leu-Asp-Leu-Leu-Phe-Leu-Lys-Glu-Gly-Gly-Leu Storage and Stability: Lyophilized powder may be stored at 4°C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20°C. R...	1mg	C5818-05	UNITED STATES BIOLOGICAL	<a href="#">More Info</a>
CKS-17 (7-12)	Sequence: Leu-Asp-Leu-Leu-Phe-Leu Storage and Stability: Lyophilized powder may be stored at 4°C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20°C. Reconstituted product is stable for 12 months...	25mg	C5818-05A	UNITED STATES BIOLOGICAL	<a href="#">More Info</a>

<b>CKS-17</b>	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	0.5 mg	06-271-83162	GENWAY BIOTECH INC.	<a href="#">More In</a>
<b>CKS-17</b>	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	1 mg	06-271-83162	GENWAY BIOTECH INC.	<a href="#">More In</a>
<b>CARCINOEMBRYONIC ANTIGEN (CL)</b>	testing/assay service	n/a	n/a	RDL REFERENCE LABORATORY INC.	<a href="#">More In</a>
<b>CASPASE-3/7 (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CASPASE-8 (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CASPASE-9 (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CASPASE (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CL 218872</b>	Benzodiazepine agonist displaying selectivity for $\alpha$ 1 subunit-containing GABAA receptors (Ki values are 130, 1820, 1530, > 10000, 490 and > 10000 nM for $\alpha$ 1, $\alpha$ 2, $\alpha$ 3, $\alpha$ 4, $\alpha$ 5 and $\alpha$ 6-subunit containing re...	10mg, 50mg	1709	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<b>CL-387,785</b>	Irreversibly inhibits EGF-receptor (EGFR) kinase activity in vivo (IC50 = 250-490 pM) as well as EGF-stimulated autophosphorylation of tyrosine residues in the EGFR in vivo (IC50 = 5 nM). Blocks EGF-mediated growth in A431 cells. Inhibits prolifer...	n/a	233100	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
	A selective inhibitor of MMP-13 (IC50 = 10 $\mu$ M).				

<b>CL-82198</b>	Binds to the S1' pocket of MMP-13 with its morpholine ring adjacent to the catalytic zinc atom. Does not inhibit MMP-1, MMP-9, and TACE.	n/a	233105	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<b>Calphostin C, Cladosporium cladosporioides</b>	A cell permeable, highly specific inhibitor of protein kinase C (IC50 = 50 nM) that interacts with the protein's regulatory domain by competing at the binding site of diacylglycerol and phorbol esters. Does not compete with Ca2+ or phospholi...	n/a	208725	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<b>Cladribine</b>	It is a substituted purine nucleoside with antileukemic activity. Melting Point: 220-235°C dec. Solubility: Methanol, Water	50mg	C5819-75	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>Clarithromycin</b>	A semi-synthetic macrolide antibiotic. A derivative of erythromycin. Melting Point: 217-220°C dec. Solubility: Chloroform, Ethanol	50mg	C5829	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>Clavulanic Acid</b>	A B-Lactamase inhibitor.	10mg	C5836	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>CLIC3</b>	The RP-39009 CLIC3 protein is a full length bacterially expressed recombinant protein. RP-39009 is suitable for use as a control in ELISA and Western blot applications. The RP-39009 amino acid sequence corresponds to the NCBI accession number NP_004...	10 ug	RP-39009	ABR - AFFINITY BIOREAGENTS INC.	<a href="#">More In</a>
<b>Clidinium Bromide</b>	An anticholinergic. Used as an antispasmodic. Melting Point: 240-241°C	5g	C5840-75	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
	A metal ion chelator that crosses the blood brain barrier and acts as a neurotoxic antibiotic. Reported to dissolve				

<a href="#">Clioquinol</a>	senile plaques and reduce amyloid's ability to clump together, apparently by trapping the Cu <sup>2+</sup> and Zn <sup>2+</sup> that stud these depos...	n/a	233165	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<a href="#">CLK3, active</a>	n/a	10 ug	14-724	MILLIPORE	<a href="#">More In</a>
<a href="#">CLK2, active</a>	n/a	10 ug	14-774	MILLIPORE	<a href="#">More In</a>
<a href="#">Clofarabine</a>	ISecond generation purine nucleoside analog; antimetabolite that inhibits DNA synthesis and resists deamination by adenosine deaminase. Antineoplastic. Melting Point: 225-227?C	10mg	C5843-55	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<a href="#">Clofarabine</a>	Deoxycytidine kinase (dCK) substrate. Phosphorylated to form clofarabine triphosphate, which competes with dATP for DNA polymerase- $\alpha$ and - $\epsilon$ and potently inhibits ribonucleotide reductase (IC <sub>50</sub> = 65 nM). Induces apoptosis by direct...	10mg, 50mg	2600	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<a href="#">CLOFIBRATE</a>	n/a	n/a	n/a	CAYMAN CHEMICAL CO.	<a href="#">More In</a>
<a href="#">Clofibrate</a>	PPAR agonist (EC <sub>50</sub> values are 50, 500 and > 100 $\mu$ M at PPAR $\alpha$ , PPAR $\gamma$ and PPAR $\delta$ respectively). Antihyperlipoproteinemic.	1g	0824	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<a href="#">Clofibric acid</a>	PPAR agonist. Antihyperlipoproteinemic.	1g	0825	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<a href="#">Clofibrate</a>	An anti-hyperlipoproteinemic agent believed to act by inhibiting cholesterol biosynthesis. Activates PPAR $\alpha$ and induces cytochrome P450 4A1 and 4A3. Imparts protection against acetaminophen toxicity and increases hepatic glutathione levels.	n/a	231405	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<a href="#">Clofulbicyne</a>	n/a	1 mg.	TXL9001-1	ACCURATE CHEMICAL & SCIENTIFIC CO.	<a href="#">More In</a>

<b>Clofulbicyne</b>	n/a	5x1 mg.	TXL9001-5	ACCURATE CHEMICAL & SCIENTIFIC CO.	<a href="#">More In</a>
<b>Clomifene citrate</b>	International Chemical Reference Substances are established upon the advice of the WHO Expert Committee on Specifications for Pharmaceutical Preparations. They are supplied primarily for use in physical and chemical tests and assays described in t...	100 mg	9930259	W.H.O. COLLABORATING CENTRE	<a href="#">More In</a>
<b>Clomiphene, Citrate</b>	An unducer of ovulation. A gonad-stimulating principle. Melting Point: 116.5-118?C Solubility: Methanol	10g	C5843-65	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>Cloning</b>	>1500 bp into 3 different expression vectors	n/a	PE05-0003	HYPEROMICS FARMA INC.	<a href="#">More In</a>
<b>Cloning</b>	<1500 bp into 3 different expression vectors	n/a	PE05-0002	HYPEROMICS FARMA INC.	<a href="#">More In</a>
<b>Clopidogrel Carboxylic Acid</b>	A metabolite of the drug Clopidogrel. Solubility: Methanol, Water	5mg	C5849-01	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>CLOSTRIPAIN</b> <b>Clostridium</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>Clotrimazole</b>	An antifungal agent that acts as a potent and specific inhibitor of the Ca2+-activated K+ channel (Gardos channel); IC50 = 650 nM. Prevents K+ loss and dehydration of sickled erythrocytes.	n/a	233230	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<b>Clozapine</b>	An antipsychotic. Melting Point: 183-184?C Solubility: Acetone, Ether	250mg	C5866	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>Clozapine</b>	Atypical antipsychotic drug, with a much lower tendency to cause extrapyramidal side effects than conventional neuroleptics. Displays a broad range of pharmacological actions; the antipsychotic effects are thought to be mediated principally by 5-H...	50mg, 500mg	0444	TOCRIS BIOSCIENCE	<a href="#">More In</a>

<b>CLTB</b>	The RP-39010 CLTB protein is a full length bacterially expressed recombinant protein.RP-39010 is suitable for use as a control in ELISA and Western blot applications.The RP-39010 amino acid sequence corresponds to the NCBI accession number NP_0018...	10 ug	RP-39010	ABR - AFFINITY BIOREAGENTS INC.	<a href="#">More Info</a>
<b>Aldosterone-3 CMO (BSA)</b>	The major mineralcorticoid, which is secreted almost independently of ACTH from the pituitary, is aldosterone. Aldosterone secretion is controlled mostly by the levels of potassium and sodium in serum and a blood pressure control system called th...	5mg	A1350-04	UNITED STATES BIOLOGICAL	<a href="#">More Info</a>
<b>Androstanedione-3 (CMO)</b>	Androstanedione was discovered in 1935. It is naturally produced in men and women. It is a direct precursor to the hormone testosterone. The liver converts androstanedione to testosterone.Precursor:4-Androsten-3,17-dione-3Sto rage and Stability:Lyo...	10mg	A2292-02	UNITED STATES BIOLOGICAL	<a href="#">More Info</a>
<b>CMPD-1</b>	Non-ATP-competitive, selective inhibitor of p38 $\alpha$ -mediated MK2a (mitogen-activated protein kinase-activated protein kinase 2a) phosphorylation (apparent $K_i = 330$ nM). Does not inhibit p38 $\alpha$ -mediated phosphorylation of the two other kno...	10mg, 50mg	2186	TOCRIS BIOSCIENCE	<a href="#">More Info</a>
<b>CMV</b>	Glycine Extract	mL	0810003GE	ZEPTOMETRIX CORP.	<a href="#">More Info</a>
<b>CMV</b>	Cytomegalovirus (AD169) Infected Cell Extract. Used for IgG assays - Control is NHDF AV043	n/a	CV001	EASTCOAST BIO INC.	<a href="#">More Info</a>
	Cytomegalovirus				

<b>CMV</b>	Gradient Purified. Used for IgM assays.	n/a	CV046	EASTCOAST BIO INC.	<b>More In</b>
<b>CMV</b>	Cytomegalovirus Ag slides for FA. Made to Order	n/a	CG015	EASTCOAST BIO INC.	<b>More In</b>
<b>CMV</b>	Part Pure	n/a	J43010	BIOSPACIFIC INC.	<b>More In</b>

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Name	Description	Size	Catalog #	Supplier	
CKBB	Recombinant Human Creatine Kinase BB Isoenzyme	10µg, 50µg, 1mg	CKI- 268	PROSPEC-TANY TECHNOGENE LTD.	<a href="#">More In</a>
Cdkk6	The RP-39008 Cdkk6 protein is a partial length (aa 1-327) bacterially expressed recombinant protein. RP-39008 is suitable for use as a control in ELISA and Western blot applications. The RP-39008 protein is GST-tagged.	10 ug	RP-39008	ABR - AFFINITY BIOREAGENTS INC.	<a href="#">More In</a>
CKMM	Human Creatine Kinase MM	200µg, 1mg, 10mg	CKI- 273	PROSPEC-TANY TECHNOGENE LTD.	<a href="#">More In</a>
CKS-17	Sequence: Leu-Gln-Asn-Arg-Arg-Gly-Leu-Asp-Leu-Leu-Phe-Leu-Lys-Glu-Gly-Gly-Leu Storage and Stability: Lyophilized powder may be stored at 4°C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20°C. R...	1mg	C5818-05	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
CKS-17 (7-12)	Sequence: Leu-Asp-Leu-Leu-Phe-Leu Storage and Stability: Lyophilized powder may be stored at 4°C for short-term only. Reconstitute to nominal volume by adding sterile 40-50% glycerol and store at -20°C. Reconstituted product is stable for 12 months...	25mg	C5818-05A	UNITED STATES BIOLOGICAL	<a href="#">More In</a>

<b>CKS-17</b>	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	0.5 mg	06-271-83162	GENWAY BIOTECH INC.	<a href="#">More In</a>
<b>CKS-17</b>	This Peptide CKS-17 is considered as the major immunosuppressive site of retroviral TM protein. It can suppress T effector cell function in vitro. It has been shown that CKS-17 causes an imbalance of human types 1 and 2 cytokines and inhibition of...	1 mg	06-271-83162	GENWAY BIOTECH INC.	<a href="#">More In</a>
<b>CARCINOEMBRYONIC ANTIGEN (CL)</b>	testing/assay service	n/a	n/a	RDL REFERENCE LABORATORY INC.	<a href="#">More In</a>
<b>CASPASE-3/7 (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CASPASE-8 (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CASPASE-9 (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CASPASE (CL)</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<a href="#">More In</a>
<b>CL 218872</b>	Benzodiazepine agonist displaying selectivity for $\alpha$ 1 subunit-containing GABAA receptors (Ki values are 130, 1820, 1530, > 10000, 490 and > 10000 nM for $\alpha$ 1, $\alpha$ 2, $\alpha$ 3, $\alpha$ 4, $\alpha$ 5 and $\alpha$ 6- subunit containing re...	10mg, 50mg	1709	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<b>CL-387,785</b>	Irreversibly inhibits EGF-receptor (EGFR) kinase activity in vivo (IC50 = 250-490 pM) as well as EGF-stimulated autophosphorylation of tyrosine residues in the EGFR in vivo (IC50 = 5 nM). Blocks EGF-mediated growth in A431 cells. Inhibits prolifer...	n/a	233100	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
	A selective inhibitor of MMP-13 (IC50 = 10 $\mu$ M).				

<b>CL-82198</b>	Binds to the S1' pocket of MMP-13 with its morpholine ring adjacent to the catalytic zinc atom. Does not inhibit MMP-1, MMP-9, and TACE.	n/a	233105	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<b>Calphostin C, Cladosporium cladosporioides</b>	A cell permeable, highly specific inhibitor of protein kinase C (IC50 = 50 nM) that interacts with the protein's regulatory domain by competing at the binding site of diacylglycerol and phorbol esters. Does not compete with Ca2+ or phospholi...	n/a	208725	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<b>Cladribine</b>	It is a substituted purine nucleoside with antileukemic activity. Melting Point: 220-235°C dec. Solubility: Methanol, Water	50mg	C5819-75	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>Clarithromycin</b>	A semi-synthetic macrolide antibiotic. A derivative of erythromycin. Melting Point: 217-220°C dec. Solubility: Chloroform, Ethanol	50mg	C5829	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>Clavulanic Acid</b>	A B-Lactamase inhibitor.	10mg	C5836	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>CLIC3</b>	The RP-39009 CLIC3 protein is a full length bacterially expressed recombinant protein. RP-39009 is suitable for use as a control in ELISA and Western blot applications. The RP-39009 amino acid sequence corresponds to the NCBI accession number NP_004...	10 ug	RP-39009	ABR - AFFINITY BIOREAGENTS INC.	<a href="#">More In</a>
<b>Clidinium Bromide</b>	An anticholinergic. Used as an antispasmodic. Melting Point: 240-241°C	5g	C5840-75	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
	A metal ion chelator that crosses the blood brain barrier and acts as a neurotoxic antibiotic. Reported to dissolve				

<b>Clioquinol</b>	senile plaques and reduce amyloid's ability to clump together, apparently by trapping the Cu <sup>2+</sup> and Zn <sup>2+</sup> that stud these depos...	n/a	233165	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<b>CLK3, active</b>	n/a	10 ug	14-724	MILLIPORE	<a href="#">More In</a>
<b>CLK2, active</b>	n/a	10 ug	14-774	MILLIPORE	<a href="#">More In</a>
<b>Clofarabine</b>	ISecond generation purine nucleoside analog; antimetabolite that inhibits DNA synthesis and resists deamination by adenosine deaminase. Antineoplastic.Melting Point: 225-227?C	10mg	C5843-55	UNITED STATES BIOLOGICAL	<a href="#">More In</a>
<b>Clofarabine</b>	Deoxycytidine kinase (dCK) substrate. Phosphorylated to form clofarabine triphosphate, which competes with dATP for DNA polymerase- $\alpha$ and - $\epsilon$ and potently inhibits ribonucleotide reductase (IC50 = 65 nM). Induces apoptosis by direct...	10mg, 50mg	2600	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<b>CLOFIBRATE</b>	n/a	n/a	n/a	CAYMAN CHEMICAL CO.	<a href="#">More In</a>
<b>Clofibrate</b>	PPAR agonist (EC50 values are 50, 500 and > 100 $\mu$ M at PPAR $\alpha$ , PPAR $\gamma$ and PPAR $\delta$ respectively). Antihyperlipoproteinemic.	1g	0824	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<b>Clofibrlic acid</b>	PPAR agonist. Antihyperlipoproteinemic.	1g	0825	TOCRIS BIOSCIENCE	<a href="#">More In</a>
<b>Clofibrate</b>	An anti-hyperlipoproteinemic agent believed to act by inhibiting cholesterol biosynthesis. Activates PPAR $\alpha$ and induces cytochrome P450 4A1 and 4A3. Imparts protection against acetaminophen toxicity and increases hepatic glutathione levels.	n/a	231405	CALBIOCHEM/EMD BIOSCIENCES	<a href="#">More In</a>
<b>Clofulbicyne</b>	n/a	1 mg.	TXL9001-1	ACCURATE CHEMICAL & SCIENTIFIC CO.	<a href="#">More In</a>

<b>Clofulbicyne</b>	n/a	5x1 mg.	TXL9001-5	ACCURATE CHEMICAL & SCIENTIFIC CO.	<b>More In</b>
<b>Clomifene citrate</b>	International Chemical Reference Substances are established upon the advice of the WHO Expert Committee on Specifications for Pharmaceutical Preparations. They are supplied primarily for use in physical and chemical tests and assays described in t...	100 mg	9930259	W.H.O. COLLABORATING CENTRE	<b>More In</b>
<b>Clomiphene, Citrate</b>	An unducer of ovulation. A gonad-stimulating principle. Melting Point: 116.5-118?CSolubility: Methanol	10g	C5843-65	UNITED STATES BIOLOGICAL	<b>More In</b>
<b>Cloning</b>	>1500 bp into 3 different expression vectors	n/a	PE05-0003	HYPEROMICS FARMA INC.	<b>More In</b>
<b>Cloning</b>	<1500 bp into 3 different expression vectors	n/a	PE05-0002	HYPEROMICS FARMA INC.	<b>More In</b>
<b>Clopidogrel Carboxylic Acid</b>	A metabolite of the drug Clopidogrel. Solubility: Methanol, Water	5mg	C5849-01	UNITED STATES BIOLOGICAL	<b>More In</b>
<b>CLOSTRIPTAIN</b> <b>Clostridium</b>	n/a	n/a	n/a	PROMEGA CORPORATION	<b>More In</b>
<b>Clotrimazole</b>	An antifungal agent that acts as a potent and specific inhibitor of the Ca2+-activated K+ channel (Gardos channel); IC50 = 650 nM). Prevents K+ loss and dehydration of sickled erythrocytes.	n/a	233230	CALBIOCHEM/EMD BIOSCIENCES	<b>More In</b>
<b>Clozapine</b>	An antipsychotic. Melting Point: 183-184?CSolubility: Acetone, Ether	250mg	C5866	UNITED STATES BIOLOGICAL	<b>More In</b>
<b>Clozapine</b>	Atypical antipsychotic drug, with a much lower tendency to cause extrapyramidal side effects than conventional neuroleptics. Displays a broad range of pharmacological actions; the antipsychotic effects are thought to be mediated principally by 5-H...	50mg, 500mg	0444	TOCRIS BIOSCIENCE	<b>More In</b>

<b>CLTB</b>	The RP-39010 CLTB protein is a full length bacterially expressed recombinant protein.RP-39010 is suitable for use as a control in ELISA and Western blot applications.The RP-39010 amino acid sequence corresponds to the NCBI accession number NP_0018...	10 ug	RP-39010	ABR - AFFINITY BIOREAGENTS INC.	<a href="#">More Info</a>
<b>Aldosterone-3 CMO (BSA)</b>	The major mineralcorticoid, which is secreted almost independently of ACTH from the pituitary, is aldosterone. Aldosterone secretion is controlled mostly by the levels of potassium and sodium in serum and a blood pressure control system called th...	5mg	A1350-04	UNITED STATES BIOLOGICAL	<a href="#">More Info</a>
<b>Androstanedione-3 (CMO)</b>	Androstanedione was discovered in 1935. It is naturally produced in men and women. It is a direct precursor to the hormone testosterone. The liver converts androstanedione to testosterone.Precursor:4-Androsten-3,17-dione-3Sto rage and Stability:Lyo...	10mg	A2292-02	UNITED STATES BIOLOGICAL	<a href="#">More Info</a>
<b>CMPD-1</b>	Non-ATP-competitive, selective inhibitor of p38 $\alpha$ -mediated MK2a (mitogen-activated protein kinase-activated protein kinase 2a) phosphorylation (apparent $K_i = 330$ nM). Does not inhibit p38 $\alpha$ -mediated phosphorylation of the two other kno...	10mg, 50mg	2186	TOCRIS BIOSCIENCE	<a href="#">More Info</a>
<b>CMV</b>	Glycine Extract	mL	0810003GE	ZEPTOMETRIX CORP.	<a href="#">More Info</a>
<b>CMV</b>	Cytomegalovirus (AD169) Infected Cell Extract. Used for IgG assays - Control is NHDF AV043	n/a	CV001	EASTCOAST BIO INC.	<a href="#">More Info</a>
	Cytomegalovirus				

<b>CMV</b>	Gradient Purified. Used for IgM assays.	n/a	CV046	EASTCOAST BIO INC.	<b>More In</b>
<b>CMV</b>	Cytomegalovirus Ag slides for FA. Made to Order	n/a	CG015	EASTCOAST BIO INC.	<b>More In</b>
<b>CMV</b>	Part Pure	n/a	J43010	BIOSPACIFIC INC.	<b>More In</b>

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